# TC-RX77/RX77ES

## SERVICE MANUAL

US Model Canadian Model

TC-RX77ES

AEP Model

TC-RX77



Dolby noise reduction manufactured under license from Dolby Laboratories Licensing Corporation. "DOLBY" and the double-D symbol D are trademarks of Dolby Laboratories Licensing Corporation.

#### **SPECIFICATIONS**

Model Name Using Similar Mechanism	TC-RX70/RX70ES
Tape Transport Mechanism Type	TCM-200R6

Recording system

4-track 2-channel stereo

Fast-winding time

Approx. 90 sec. (with Sony C-60

cassette)

Bias

AC bias

Heads

Erasing head × 1 (ferrite head)

Playback/Recording head × 1 (LA

head)

Motors

Capstan motor × 1 (DC servo motor)

Reel motor × 1 (DC motor)

ASIST (mechanical drive) motor  $\times$  1

(DC motor)

Signal-to-noise ratio (at peak level)

Dolby NR switch Cassette	OFF	B-Type ON	C-Type ON
Type IV (Sony METAL-SLT)	59 dB	67 dB	74 dB
Type II (Sony UX-S)	58 dB	66 dB	73 dB
Type I (Sony HF-S)	56 dB	64 dB	71 dB

Total harmonic distortion

1% (with Sony METAL-SLT cassette)

Frequency response (DOLBY NR OFF)

	20-20,000Hz (± 3db,IEC) (US, Canadian models) 25-19,000Hz (± 3db,IEC) (AEP)	
Type II cassette (Sony UX-S)	25 - 17,000 Hz (±3 dB, IEC)	
Type I cassette (Sony HF-S)	25 - 16,000 Hz (±3 dB, IEC)	

Wow and flutter

±0.09% W. Peak (IEC) 0.06% WRMS (NAB) ±0.16% W. Peak (DIN) Inputs

mpate			
Line inputs (phono jacks)	Sensitivity	77.5 mV	
	Input impedance	47 k ohms	
Microphone inputs (phone jacks)	Sensitivity (For a low-impedance microphone)	0.25 mV	

#### Outputs

Line outputs (phono jacks)	Rated output level	0.32 V at a load impedance of 47 k ohms
	Load impedance	Over 10 k ohms
Headphones (stereo phone jack)	Output level	0-1.25 mW at a load impedance of 32 ohms

#### General

Power requirements

RX77ES: 120 V AC, 60Hz (US, Canadian models) RX77: 220V AC, 50/60Hz (AEP model)

Power consumption 20 W

Dimensions

Approx.  $430 \times 123 \times 300$  mm (w/h/d)

 $(17 \times 4^{7/8} \times 11^{7/8} \text{ inches})$ 

including projecting parts and controls

Weight Approx. 4.7 kg (10 lbs 6 oz)

Supplied accessory

Audio connecting cords (2)

Design and specifications subject to change without notice.



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#### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK A OR DOTTED LINE WITH MARK ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

#### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE A SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

#### SAFETY CHECK-OUT

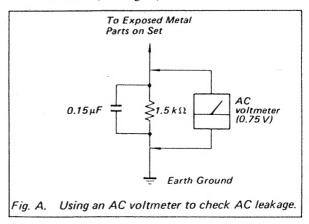
After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

#### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microampers). Leakage current can be measured by any one of three methods.

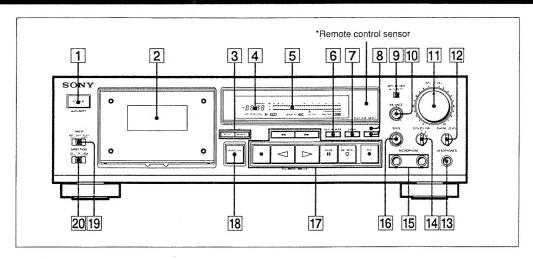
- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)



### **SECTION 1 GENERAL**

This section is extracted from instraction manual.

#### Identification of Front Panel Parts



For details, refer to the page number indicated in .

- 1 POWER switch
- 2 Cassette holder
- 3 Counter buttons RESET button @ MEMORY button 3 9
- 4 LINEAR COUNTER @
- 5 PEAK LEVEL METER @
- 6 DISPLAY MODE button @
- 7 FADER button (
- 8 ARL (automatic recording level) control and indicator @

- 9 MPX FILTER button @
- 10 BALANCE control @
- 11 REC (recording) LEVEL control @ @
- 12 PHONE (headphones) LEVEL control 7
- 13 HEADPHONES jack (stereo phone jack) ?
- 14 DOLBY NR (noise reduction switch) 7 19
- 15 MICROPHONE jacks (phone jacks)
- 16 BIAS control ®

- 17 Tape operation buttons
  - ◄◄ (leftward fast winding) button
  - >> (rightward fast winding) button
  - (stop) button
  - (reverse play) button
  - (forward play) button
  - II PAUSE (pause) button
  - O REC MUTE (record muting) button @
  - REC (record) button
- 18 € OPEN/CLOSE button
- 19 TIMER switch @
- 20 DIRECTION mode switch 7 10

#### \*Remote control sensor

You can remotely control this cassette deck with:

- A remote commander that came with a Sony amplifier or receiver if it has the IB mark and cassette deck control capability.
- An optional Sony remote commander with the 🖪 mark and cassette deck control capability.

## Identification of Rear Panel Parts LINE IN (line input) jacks LINE OUT CONTROL-S input J Connect to the CONTROL-AC power cord S terminal of a Sony amplifier or receiver for remote control. (US, Canadian model)

### **Features**

#### For higher quality recording/playback

- The Dolby HX PRO\* system which improves the linearity of the tape's high-range response during recording.
- · B and C type Dolby NR\* systems which reduce tape
- · Bias calibration to achieve the optimum bias current setting for any tape.

#### For your convenience

- · Quick reversing at the end of a tape to minimize interruptions during playback and recording.
- The AMS and Memory Play functions which provide easy access to a desired selection.
- · Automatic recording level adjustment for one-touch protection against distortion.
- Timer-activated playback and recording through the use of an optional timer.
- · Automatic switching between line and microphone input when recording with a microphone.
- · Display mode button which allows you to select normal display, counter only or display off.

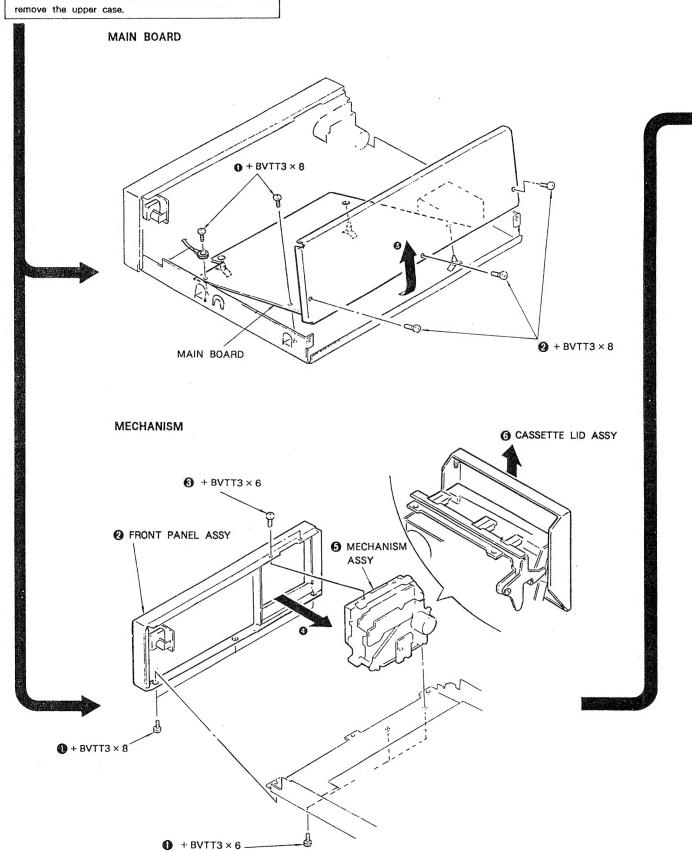
#### For easier operation

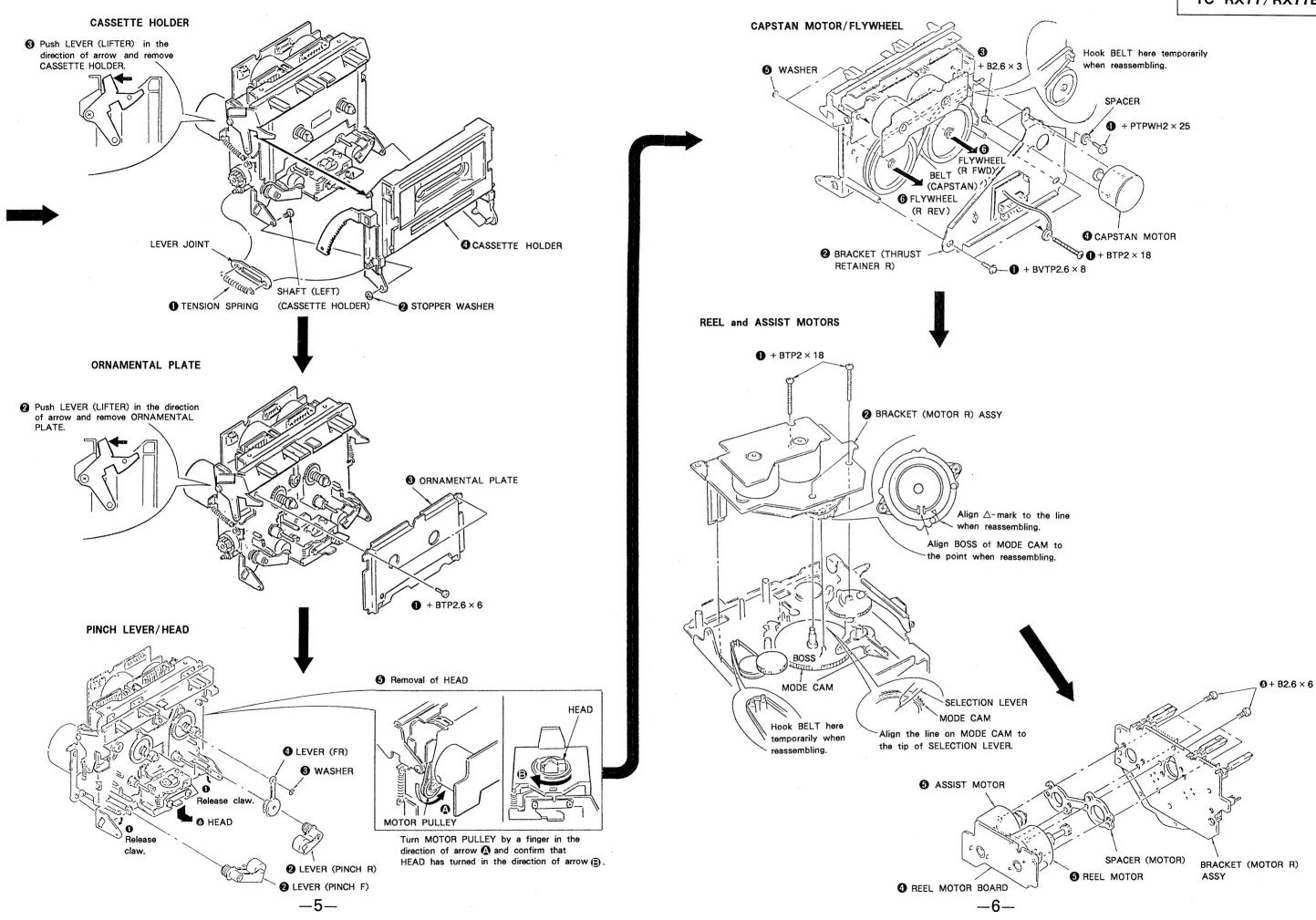
- · Fade-in and Fade-out functions to start and end recordings with a professional touch.
- · Easy-to-read digital linear counter which shows the elapsed recording or playing time.

## SECTION 2 DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

Unscrew the four case attachment screws  $M3 \times 8$  and remove the upper case





### SECTION 3 **ADJUSTMENTS**

#### 3-1. MECHANICAL ADJUSTMENTS

#### **PRECAUTION**

1. Clean the following parts with a denaturedalcohol-moistened swab:

> record/playback head erase head

pinch roller

rubber belts

capstan

idler

- Demagnetize the record/playback head with a head demagnetizer.
- 3. Do not use a magnetized screwdriver for the adiustments.
- 4. After the adjustments, apply suitable locking compound to the parts adjusted.

#### TORQUE MEASUREMENT

Torque	Torque meter	Meter reading	
FWD	CQ-102C	30 - 60g · cm (0.42 - 0.83oz · inch)	
FWD	CQ-102C	1-5g • cm (0.014 - 0.069oz • inch)	
Back tention	CQ-102C		
REV	CQ-102RC	30 - 60g · cm (0.42 - 0.83oz · inch)	
REV	CQ-102RC	1-5g • cm (0.014 - 0.069oz • inch)	
Back tention	CQ-102RC	1 - 5g • cm (0.014 - 0.0696z • mcn)	
FF, REW	CQ-201B	65 - 90 · cm (0.9 - 1.25oz · inch)	

#### 3-2, ELECTRICAL ADJUSTMENT

Note: The adjustment should be performed in the order given in the service manual. As a rule, adjustments about playback should be performed before those about recording. The adjustments should be performed for both L-CH and R-CH.

Switches and controls should be set as follows unless otherwise specified.

DOLBY NR switch

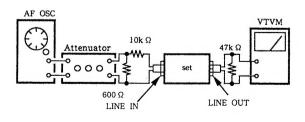
: OFF

DIRECTION switch

Standard Record:

Deliver the standard input signal level to the input jack and set the REC LEVEL control to obtain the standard output signal level.

#### -Record Mode-



#### Standard Input Level

input terminal	LINE IN
source impedance	10k Ω
input level	0,25V (-10dB)

#### Standard Output Level

output terminal	LINE OUT	
load impedance	47k Ω	
output level	0.32V (-7dBs (m))	

#### Test Tape

Туре	Signal	Used for	
P-4-A100	10kHz, -10dB	Azimuth Adjustment	
P-4-L300 315Hz, 0dB		PB Level Adjustment	
WS-48B	3kHz, 0dB	Tape Speed Adjustment	

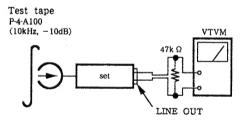
#### Test Mode

- 1. Put the set into the test mode by shorting test point TP801 (TEST) of the main bord during the set is turned off.
- 2. Remove the short after the Electrical Adjustment is completed.

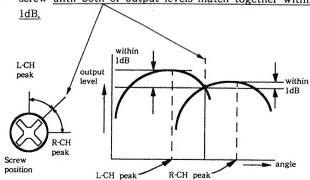
#### Record/Playback Head Azimuth Adjustment

#### Procedure:

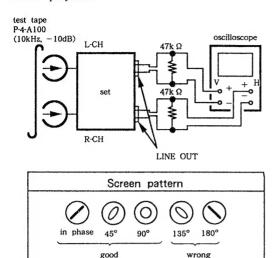
1. Mode: FWD playback



2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within



3. Phase Check
Mode: playback



- 4. Set in the REV mode and repeat the step 1-3.
- After the adjustment, lock the screws with locking compound,

Adjustment Location: Record/Playback head



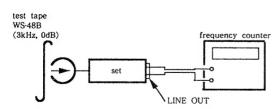
#### Tape Speed Adjustment

Setting:

test pin TP801: short

Procedure :

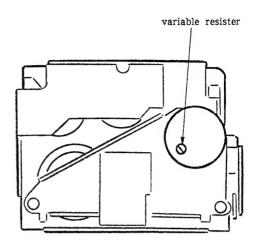
Mode: playback



- 1. Set to FWD playback mode.
- 2. Adjust motor rear side (variable resistor) so that the frequency counter reading becomes  $3,000\pm15 Hz$ .

#### Adjustment Location:

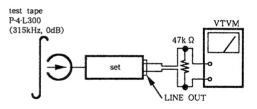
motor rear side



#### Playback Level Adjustment

#### Procedure:

Mode: playback



Adjust RV101 (L-ch) and RV201 (R-ch) so that the reading on VTVM meets the adjustment limits below.

#### Adjustment Limits:

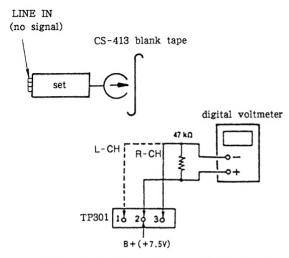
LINE OUT level:  $-7.7 dBs(m) \pm 0.5 dB(0.3\sim0.34V)$ 

Level difference between channels: less than 0.5 dB Check that the LINE OUT level does not change even if Playback and Stop operation is repeated several times.

Adjustment Location: Main board

#### Bias Current Adjustment

#### Procedure:



- Set RV103 and RV203 to mechanical center and turn the set recording mode.
- 2. Connect digital voltmeter as shown by the following table.
- Adjust the following transformers for the minimum readings on the digital voltmeter.

	Mesurement Point	Adjustment Part	Value
L-ch	① and ②, TP301	T101	not more than
R-ch	. ② and ③, TP301	T201	130mV

Adjustment Location: Main board

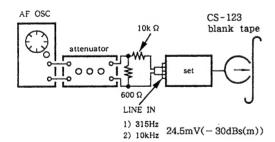
#### Record Bias Adjustment

#### Setting:

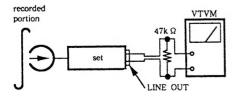
REC LEVEL control: Standard Record (See page 7.) test pin TP801: short

#### Procedure:

1. Mode: record



2. Mode: playback



Playback the signal recorded in step 1.

Confirm that the 10kHz playback output is  $0\pm0.5dB$  relative to the 315Hz output. If necessary, adjust RV103 (L-ch) and RV203 (R-ch) for repeat the steps given above.

Adjustment Location: Main board

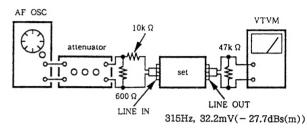
#### Record Level Adjustment

#### Setting:

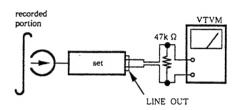
REC LEVEL control: Standard Record (See page 7.) test pin TP801: short

#### Procedure:

1. Mode: record



2. Mode: playback



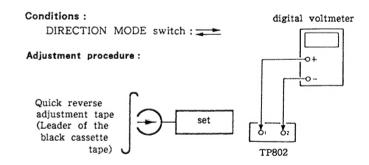
3. Playback the signal recorded in step1.

Confirm that the signal level is within the adjustment limits below. If necessary, adjust RV102 (L-ch) and RV202 (R-ch) repeat the step1-2.

Adjustment Limits:  $-27.7 dBs(m) \pm 0.5 dB(30.4 \sim 34.2 mV)$ 

Adjustment Location: Main board

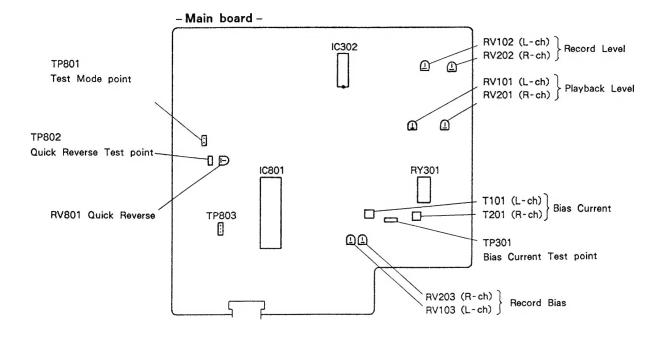
#### Quick Reverse Sensitivity Adjustment



- 1. Connect the digital voltmeter to test point TP802.
- Load quick reverse adjustment tape and play back the leading portion in FWD mode.
- 3. Adjust the RV801 for  $4.5 \pm 0.5 V$  reading on the digital voltmeter.
- 4. Play back quick reverse adjustment tape in FWD mode again.
- 5. Confirm that the reading on the digital voltmeter is "L" level at the magnetic portion of the tape.
- 6. Confirm that the tape stop around the tape end (boder of the leading and the magnetic portions).

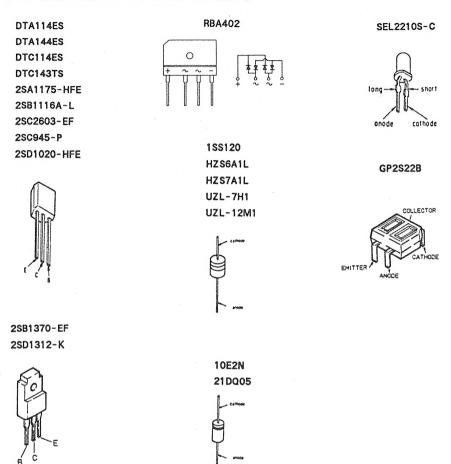
Adjustment Location: Main board

#### **Adjustment Parts Location**

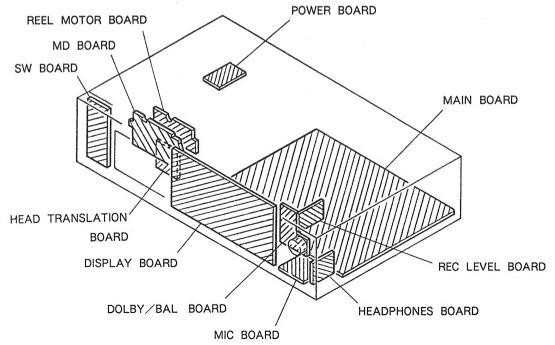


## SECTION 4 DIAGRAMS

#### 4-1. SEMICONDUCTOR LEAD LAYOUTS

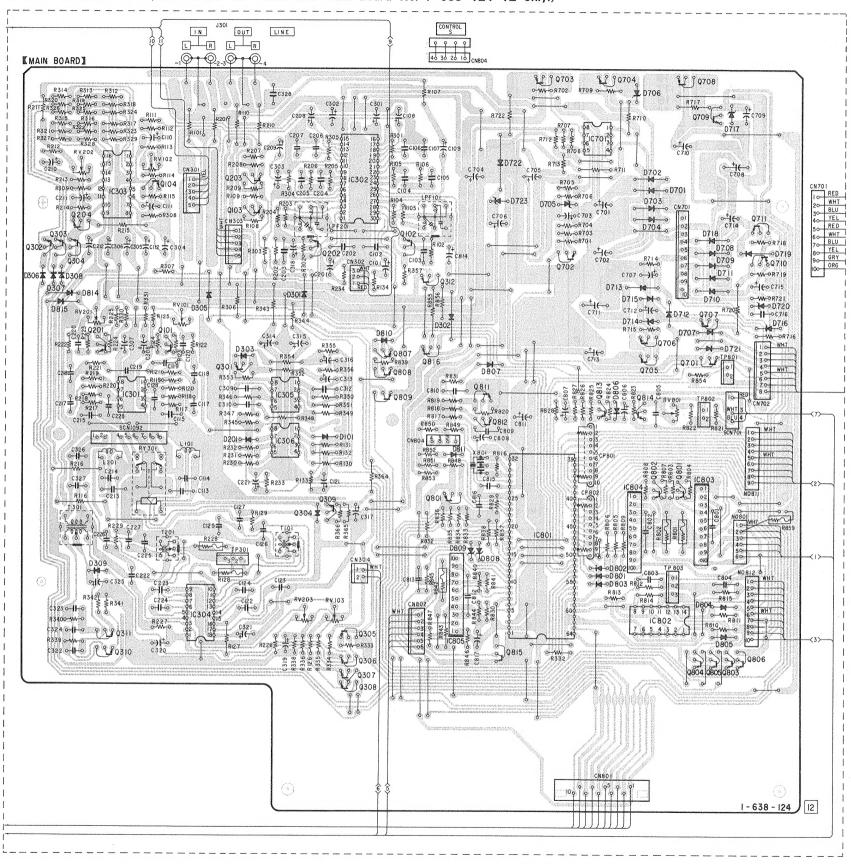


#### 4-2. CIRCUIT BOARDS LOCATION



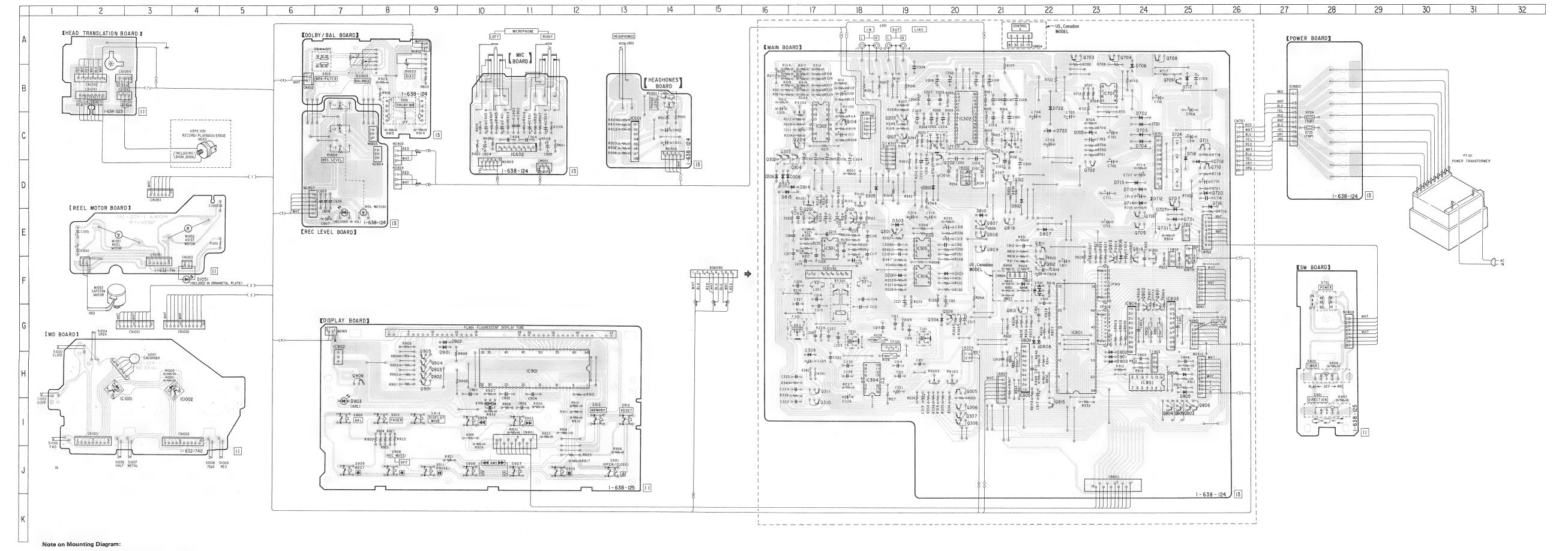
#### 4-3. PRINTED WIRING BOARDS

#### 4-3-1. FORMER TYPE (Main Board US model and Main Board No. 1-638-124-12 only.)



Semiconductor Location

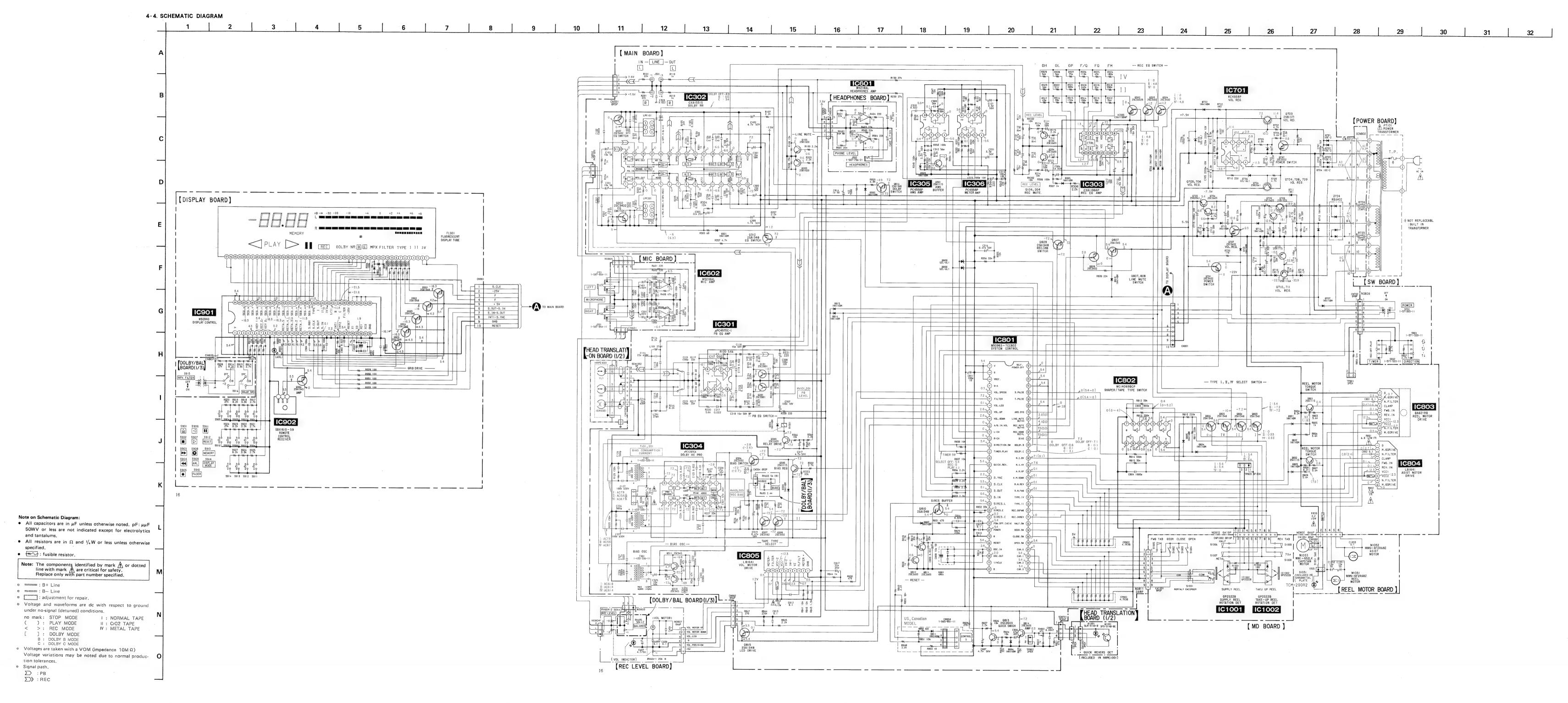
Ref. No.	Location	Ref. No.	Location
D101 D201 D301 D302 D303 D304 D305 D306 D307 D308 D309 D701 D702 D703 D704 D705 D706 D707 D712 D713 D714 D715 D716 D717 D718 D719 D720 D721 D722 D723 D724 D801 D802 D803 D804 D805 D806 D807 D808 D809 D810 D811 D811 D815 D901 D801 D802 D803 D804 D805 D806 D807 D808 D809 D810 D811 D811 D815 D901 D801 D802 D803 D1051 IC301 IC302 IC303 IC304 IC305 IC306 IC601 IC602 IC701 IC801 IC802 IC701 IC801 IC802 IC701 IC801 IC902 IC1001 IC1002 Q101	F-F-DDE-GDDD-1-124444435454444455555222533335542222117779974	Q102 Q103 Q104 Q201 Q202 Q203 Q204 Q301 Q302 Q303 Q304 Q305 Q305 Q306 Q307 Q308 Q307 Q701 Q702 Q701 Q701 Q701 Q701 Q701 Q701 Q701 Q701	C-C-198 -219



**—15**—

• o---: parts extracted from the component side.

• [ indicates side identified with part number.



### **SECTION 5 EXPLODED VIEWS**

#### NOTE:

- − XX, − X mean standardized parts, so they may have some differences from the original one.
- Color Indication of Appearance Parts Example:

KNOB, BALANCE (WHITE)...(RED) Parts color Cabinet's color • Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

• The mechanical parts with no reference number in the exploded views are not supplied.

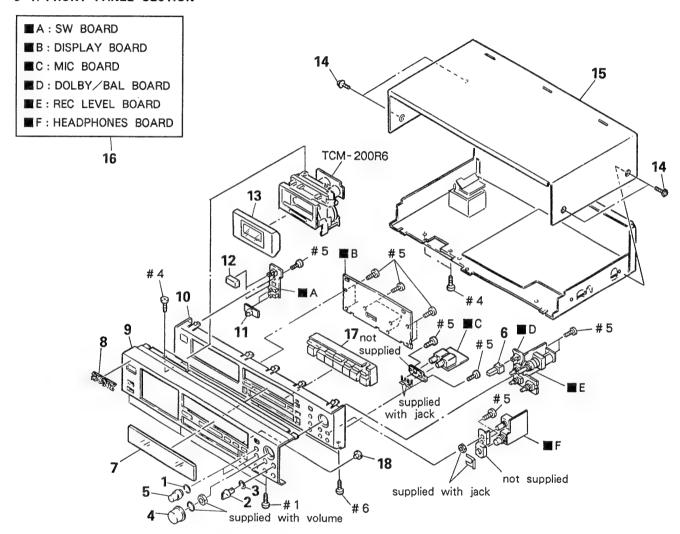
• Hardware (# mark) list is given in the last of this parts list.

The components identified by mark \( \bar{\Lambda} \) or dotted line with mark \( \bar{\Lambda} \) are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifié.

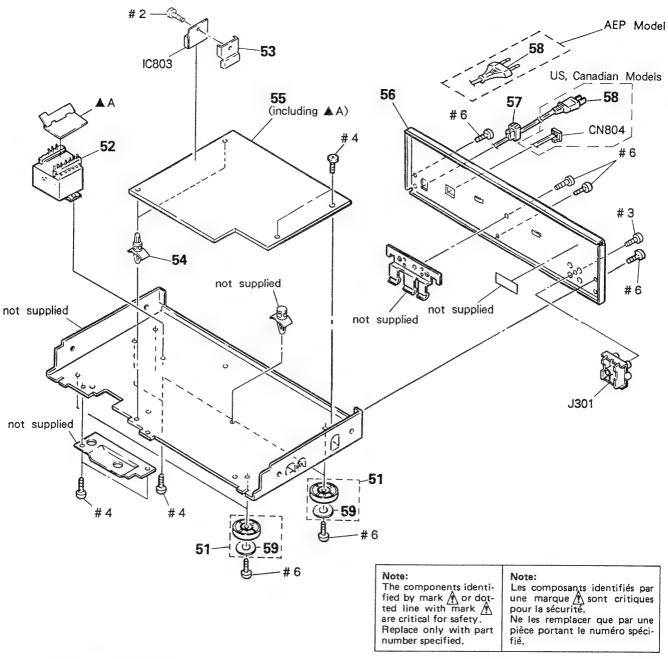
#### 5-1. FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
1	3-356-957-01	SPRING		10	3-367-440-01	PANEL (BASE)	
2	3-350-495-01	KNOB (VOL)		11	4-931-421-11	KNOB (T & S)	
3	3-370-186-01	SPRING (SWPA), RING		12	4-922-921-01	BUTTON (POWER)	
4	X-3362-823-1	KNOB (REC) ASSY		13	X-3362-822-1	LID (B) ASSY, CASSETTE (US, Canadi	an)
5	3-367-431-01	KNOB (BAL)			X-3362-821-1	LID(A) ASSY, CASSETTE (AEP)	
6	3-350-473-01	BUTTON		14	3-363-099-01	SCREW (CASE +3X8 TP2)	
7	3-367-430-01	WINDOW (METER) (US, Canadian)		15	3-332-578-61	CASE	
	3-367-433-11	WINDOW (METER) (AEP)		16	* A-2006-441-A	PANEL BOARD (US, Canadian)	
8	4-908-848-01	EMBLEM, SONY			* A-2006-440-A	PANEL BOARD (AEP)	
9	3-367-439-12	PANEL, FRONT (US, Canadian)		17	3-367-434-01	BUTTON (A)	
	3-367-439-22	PANEL, FRONT (AEP)		18	3-367-428-01	PLATE, INDICATION	

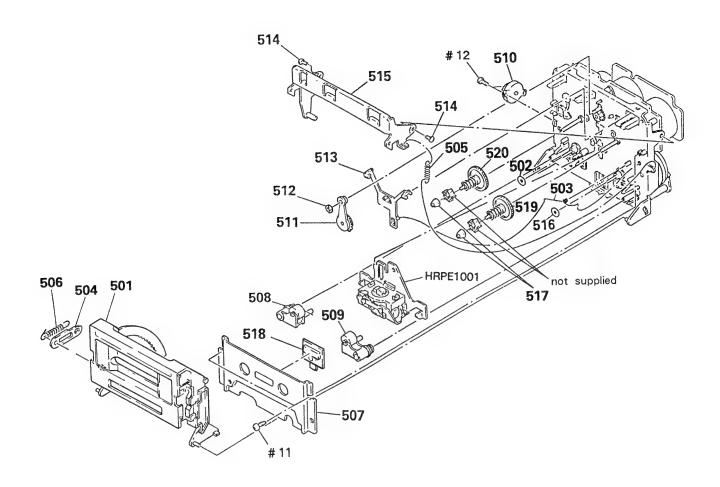
#### 5-2. CHASSIS SECTION

#### A: POWER BOARD



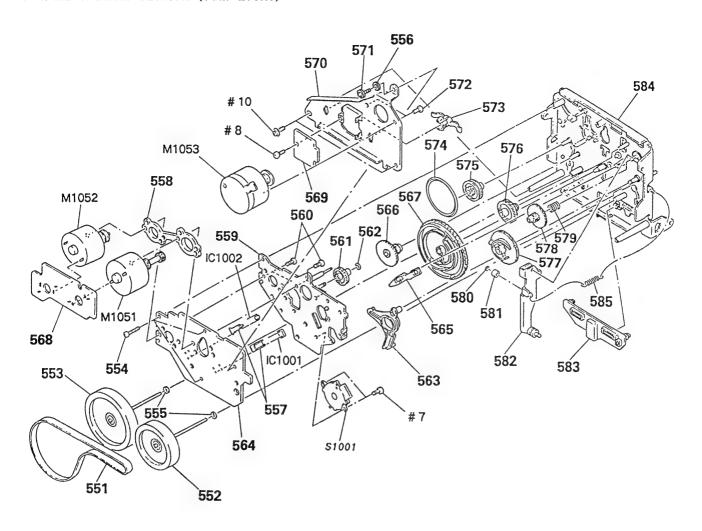
							_
<u>Ref. 1</u>	No. Part No.	Description	Remark	Ref. No.	Part No.	<u>Description</u> Remar	<u>k</u>
51	X-3304-938-2	FOOT ASSY		57	* 3-703-571-11	BUSHING (S) (4516), CORD (US, Canadian)	
52	1-450-100-11	TRANSFORMER, POWER (US, Canadian)			* 3-703-244-00	BUSHING (2104), CORD (AEP)	
	<b> 1-450-399-11</b>	TRANSFORMER, POWER (AEP)		58	<b>1-551-506-XX</b>	CORD, POWER (US. Canadian)	
53	* 3-356-925-01	HEAT SINK			1-555-795-00	CORD, POWER, EURO PLUG (AEP)	
54	* 3-346-265-11	HOLDER, PC BOARD		59	4-923-836-11	CUSHTON	
55	* A-2006-438-A	MAIN BOARD (U.S. Canadian)		CN804	1-558-350-31	CORD (WITH CONNECTOR) (US, Canadian)	
	* A-2006-439-A	MAIN BOARD (AEP)		10803	8-759-973-95	IC BA6219B	
56	* 3-366-791-11	PANEL, BACK (US, Canadian)		J301	1-573-070-11	JACK, PIN 4P (LINE) (US, Canadian)	
	* 3-366-791-31	PANEL BACK (AEP)			1-565-258-11	JACK, PIN 4P (LINE) (AEP)	

### 5-3. MECHANISM SECTION (TCM-200R6)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
501 502 503 504 505	X-3362-814-1 3-356-714-01 3-356-619-01 * 3-356-717-01 3-356-625-01	HOLDER (CD) ASSY, CASSETTE WASHER SPRING (B), TORSION LEVER (JOINT) SPRING, TENSION		511 512 513 514 515	X-3356-641-1 3-669-465-11 3-356-614-01 3-356-601-11 * X-3356-608-1	LEVER (FR2) ASSY WASHER (1.5), STOPPER SLIDER (BRAKE) SCREW, STEP LEVER (LIFTER) ASSY	
506 507 508 509 510	3-356-626-01 X-3356-613-1 X-3343-456-1 X-3343-455-1 3-712-786-01	SPRING, TENSION PLATE ASSY, ORNAMENTAL LEVER (PINCH R) ASSY LEVER (PINCH F) ASSY DAMPER, OIL		516 517 518 519 520 HRPE1001	3-356-713-01 3-362-308-01 8-719-980-85 X-3356-627-1 X-3356-628-1 A-2003-722-A	WASHER CAP (REEL) DIODE SLF-325C GEAR (T) ASSY GEAR (S) ASSY SLIDER (R4) COMPLETE ASSY	

#### 5-4. MECHANISM SECTION (TCM-200R6)



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	<u>Description</u>	Remark
551	3-356-730-01	BELT (CAPSTAN R2)		571	3-356-707-01	SCREW (+PTPWH 2X25)	
552	X-3356-642-1	FLYWHEEL (R FWD) ASSY		572	4-885-599-00	SCREW, FITTING, REINFORCEMENT	
553	X-3356-643-1	FLYWHEEL (R REV) ASSY		573	3-575-321-00	RETAINER, THRUST, CAPSTAN	
554	3-355-801-01	SCREW (BTP 2X18)		574	3-356-603-01	BELT (MODE)	
555	3-356-705-01	WASHER (CAPSTAN)		575	3-356-607-01	PULLEY (MODE)	
556	* 3-356-718-01	SPACER (THRUST RETAINER R)		576	3-356-703-01	GEAR (COMMUNICATION C)	
557	3-356-631-01	HOLDER (SENSOR)		577	3-356-616-01	GEAR (LOADING CAM)	
558	* 3-356-628-01	SPACER (MOTOR)		578	3-356-609-01	GEAR (LOADING)	
559	* X-3356-602-4	BRACKET (MOTOR R) ASSY		579	3-356-605-01	SPRING, COMPRESSION	
560	3-363-804-01	SCREW (+P 2. 6X6. 5)		580	3-558-708-11	WASHER, STOPPER	
561	3-356-702-01	GEAR (COMMUNICATION B)		581	3-356-630-01	ROLLER (LOADING)	
562	3-669-465-00	WASHER (1.5), STOPPER		582	* X-3356-606-1	LEVER (LOADING) ASSY	
563	3-356-613-01	LEVER (MODE)		583	3-356-612-01	SLIDER (REVERSE)	
564	* 1-632-740-11	MD BOARD		584	X-3356-634-1	CHASSIS (R2) COMPLETE ASSY, MECH	
565	3-356-617-01	LEVER (SELECTION)		585	3-356-624-01	SPRING, TENSION	
566	3-356-606-01	GEAR (MODE)	-	IC1001	8-749-920-97	IC PHOTO REFLECTOR GP2S22B	
567	3-356-615-01	GEAR (MODE CAM RR)	1	IC1002	8-749-920-97	1C PHOTO REFLECTOR GP2S22B	
568	<b>*</b> 1-632-741-11	REAL MOTOR BOARD	İ	M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
569	* 1-634-323-11	TRANSLATION BOARD	ĺ	M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
570	<b>*</b> 3-356-629-01	BRACKET (THRUST RETAINER R)		M1053	X-3356-646-1	MOTOR (CAPSTAN V1) ASSY	
				S1001	1-466-525-11	ENCODER, ROTARY	

### **SECTION 5 ELECTRICAL PARTS LIST**

**TRANSLATION** MD

#### NOTE:

The components identified by mark \( \hat{\Lambda} \) or dotted line with mark \( \hat{\Lambda} \) are critical for safety.

Replace only with part number specified.

Les composants identifiés par une marque f sont critiques pour la sécurité.

Ne les remplacer que par une pièce portant le numéro spécifé.

When indicating parts by reference number, please include the board name.

- Due to standardization, replacements in the parts list may be defferent from the parts specified in the diagrams or the components used on the set.
- XX. X mean standardized parts, so they may have some difference from
- the original one. RESISTORS All resistors are in ohms.

METAL: metal-film resistor METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

- Items marked "\*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
  - **SEMICONDUCTORS** In each case, u: µ, for example: uA...: μA..., uPA..., μPA..., uPB...,  $\mu PB...$ , uPC...,  $\mu PC...$ , uPD..., μPD...
- **CAPACITORS:**

uF: μF COILS

uH: µH

						•			
Ref. No	. Part No.	Description	Remark	Ref. No.	Part No.	Description			Remark
	* 1-634-323-11	TRANSLATION BOARD				<pre>〈 CAPACITOR 〉</pre>			
		⟨ CONNECTOR ⟩		C101 C102	1-124-907-11 1-162-294-31	ELECT CERAMIC	10uF 0. 001uF	20% 10%	50V 50V
CN1091	* 1-564-709-11	PIN, CONNECTOR (SMALL TYPE) 7P		C103 C104	1-161-375-00 1-130-475-00	CERAMIC Mylar	0. 0022uF 0. 0022uF	20% 5%	50V 50V
CN1092 CN1093	* 1-564-509-11 * 1-564-705-11	PLUG, CONNECTOR 6P PIN, CONNECTOR (SMALL TYPE) 3P		C105	1-130-475-00	MYLAR	0. 0022uF	5%	50V
CN1094	<b>*</b> 1-564-506-11	PLUG, CONNECTOR 3P		C106 C107	1-136-174-00 1-136-171-00	FILM FILM	0. 56uF 0. 33uF	5% 5%	50V 50V
*****	******	*************************	*******	C108 C109	1-124-907-11 1-124-927-11	ELECT ELECT	10uF 4. 7uF	20% 20%	50V 100V
	* 1-632-740-11	MD BOARD		C110	1-124-902-00	ELECT	0. 47uF	20%	50V
	3-356-631-01	HOLDER (SENSOR)		C111 C112	1-124-907-11 1-124-907-11	ELECT ELECT	10uF 10uF	20% 20%	50V 50V
	3 330 031 01	TIOLDEN (OLNOW)		C113	1-162-285-31	CERAMIC	180PF	10%	50V
		( CONNECTOR )		C114	1-136-935-11	FILM	22PF	5%	630V
N1001	1-506-615-11	PIN, CONNECTOR 9P		C115	1-164-736-31	CERAMIC	0. 0012uF	10%	50V
N1002	* 1-564-502-11	PIN, CONNECTOR 10P		C117	1-136-157-00	FILM	0. 022uF	5%	50V
		< 1C >		C118 C119	1-124-657-00 1-161-494-00	ELECT CERAMIC	10uF 0. 022uF	20%	50V 25V
		(107		C120	1-136-158-00	FILM	0. 027uF	5%	50V
C1001 C1002	8-749-920-97 8-749-920-97	1C PHOTO REFLECTOR GP2S22B 1C PHOTO REFLECTOR GP2S22B		C121	1-123-382-00	ELECT	3. 3uF	20%	100V
		( PEOLOTOP )		C122	1-136-153-00	FILM	0. 01uF	5%	50V
		〈 RESISTOR 〉		C123 C124	1-136-157-00 1-136-161-00	FILM FILM	0. 022uF 0. 047uF	5% 5%	50V
1001	1-249-408-11	CARBON 180 5% 1/4W		C125	1-136-272-00	FILM	68PF	5%	630V
R1002	1-249-408-11	CARBON 180 5% 1/4W		C126	1-130-468-00	MYLAR	560PF	5%	- 50V
		( SWITCH )		C127	1-136-433-11	FILM	100PF	5%	630V
1001	1-466-237-11	ENCODER, ROTARY		C128 C201	1-162-282-31 1-124-907-11	CERAMIC ELECT	100PF 10uF	10% 20%	50V 50V
1002	1-570-953-11	SWITCH, PUSH (1 KEY)		C202	1-162-294-31	CERAMIC	0. 001uF	10%	50V
1003 1004	1-571-958-11 1-572-126-11	SWITCH, PUSH (1 KEY) SWITCH, PUSH (1 KEY)		C203	1-161-375-00	CERAMIC	0. 0022uF	20%	50V
31005	1-572-125-11	SWITCH, LEAF		C204	1-130-475-00	MYLAR	0. 0022uF	5%	50V
1006	1-572-202-11	SWITCH, LEAF		C205 C206	1-130-475-00 1-136-174-00	MYLAR Film	0. 0022uF 0. 56uF	5% 5%	50V 50V
1007	1-572-125-11	SWITCH, LEAF		C207	1-136-171-00	FILM	0. 33uF	5%	50V
31008 31009	1-572-125-11 1-572-125-11	SWITCH, LEAF SWITCH, LEAF		C208	1-124-907-11	ELECT	10uF	20%	50V
	. 012 120 11	·		C209	1-124-927-11	ELECT	4. 7uF		100V
		( CONNECTOR )		C210 C211	1-124-902-00 1-124-907-11	ELECT ELECT	0. 47uF 10uF	20% 20%	50V 50V
B1001	* 1-569-066-11	PIN, CONNECTOR 5P		C211	1-124-907-11	ELECT	10uF	20%	50V 50V
- در باد باد باد بای بای بای				C213	1-162-285-31	CERAMIC	180PF	10%	50V
*****	*************	**********	*******	C214	1-136-935-11	FILM	22PF	5%	630V
	* A-2006-438-A	MAIN BOARD (including ▲A)		C215	1-164-736-31	CERAMIC	0. 0012uF	10%	50V
		******		C217	1-136-157-00	FILM	0. 022uF	5%	50V
	* 3-356-925-01	HEAT SINK		C218 C219	1-124-657-00 1-161-494-00	ELECT CERAMIC	10uF 0. 022uF	20%	50V 25V
	7-682-547-04	SCREW +BVTT 3X6 (S)				· <del>*</del>			

Ref. No.	Part No.	Description			<u>Remark</u>	Ref. No.	Part No.	Description				<u>Remark</u>
C220 C221 C222 C223 C224	1-136-158-00 1-123-382-00 1-136-153-00 1-136-157-00 1-136-161-00	FILM ELECT FILM FILM	3. 3uF 0. 01uF 0. 022uF	5% 20% 5% 5% 5%	50V 100V 50V 50V 50V	C709 C710 C711 C712 C713	1-124-907-11 1-124-360-00 1-124-887-00 1-124-907-11 1-124-473-11	ELECT ELECT ELECT ELECT ELECT	10uF 1000uF 3300uF 10uF 1000uF	20% 20% 20% 20% 20%	50V 16V 16V 50V 10V	
C225 C226 C227 C228 C301	1-136-272-00 1-130-468-00 1-136-433-11 1-162-282-31 1-124-907-11	FILM MYLAR FILM CERAMIC ELECT	560PF 100PF 100PF	5% 5% 5% 10% 20%	630V 50V 630V 50V 50V	C714 C715 C716 C801 C802	1-124-122-11 1-124-910-11 1-164-159-11 1-164-159-11 1-164-159-11	ELECT ELECT CERAMIC CERAMIC CERAMIC	100uF 47uF 0. 1uF 0. 1uF 0. 1uF	20% 20%	50V 50V 50V 50V 50V	
C302 C303 C304 C305 C306	1-124-907-11 1-126-233-11 1-124-903-11 1-124-907-11 1-124-907-11	ELECT ELECT ELECT ELECT	22uF 1uF 10uF	20% 20% 20% 20% 20% 20%	50V 50V 50V 50V 50V	C803 C804 C805 C806 C807	1-162-294-31 1-162-294-31 1-161-377-00 1-124-477-11 1-124-927-11	CERAMIC CERAMIC CERAMIC ELECT ELECT	0. 001uF 0. 001uF 0. 0047uF 47uF 4. 7uF	10% 10% 30% 20% 20%	50V 50V 16V 25V 100V	
C307 C308 C309 C310 C312	1-124-443-00 1-124-443-00 1-162-217-31 1-161-494-00 1-162-217-31	ELECT ELECT CERAMIC CERAMIC CERAMIC	100uF 56PF 0. 022uF	20% 20% 5% 5%	10V 10V 50V 25V 50V	C808 C809 C810 C811 C812	1-124-907-11 1-161-494-00 1-164-159-11 1-124-443-00 1-164-159-11	ELECT CERAMIC CERAMIC ELECT CERAMIC	10uF 0. 022uF 0. 1uF 100uF 0. 1uF	20%	50V 25V 50V 10V 50V	
C313 C314 C315 C316 C317	1-124-925-11 1-124-443-00 1-124-443-00 1-124-902-00 1-124-927-11	ELECT ELECT ELECT ELECT	100uF 100uF 0. 47uF	20% 20% 20% 20% 20% 20%	100V 10V 10V 50V 100V	C813 C814 C815 C816 C817	1-164-159-11 1-124-903-11 1-164-159-11 1-161-494-00 1-126-233-11	CERAMIC ELECT CERAMIC CERAMIC ELECT	0. 1uF 1uF 0. 1uF 0. 022uF 22uF	20%	50V 50V 50V 25V 50V	
C318 C319 C320 C321 C322	1-124-925-11 1-124-902-00 1-124-477-11 1-124-477-11 1-136-230-00	ELECT ELECT ELECT ELECT FILM	0. 47uF 47uF 47uF	20% 20% 20% 20% 20% 5%	100V 50V 25V 25V 100V	CN301 CN302 CN303 CN304	* 1-564-339-61 * 1-564-705-11 * 1-564-339-00 * 1-564-336-00	PIN, CONNECTOR PIN, C	R (SMALL T R 5P	YPE) 3	P	
C323 C324 C325 C326 C327	1-136-230-00 1-130-856-00 1-124-907-11 1-136-558-11 1-107-046-00	FILM FILM ELECT FILM MICA	0. 0068uF 10uF	5% 5% 20% 5%	100V 100V 50V 630V 500V	CN601 CN602 CN701 CN702 CN801	* 1-564-705-11 * 1-564-336-00 * 1-564-513-11 * 1-564-342-11 * 1-580-784-11	PIN, CONNECTO PIN, CONNECTO PLUG, CONNECTO PIN, CONNECTO CONNECTOR, BO.	R (SMALL T R 2P OR 10P R 8P		P	
C328 C401 C402 C403 C404	1-161-494-00 1-124-903-11 1-162-292-31 1-124-903-11 1-162-282-31	CERAMIC ELECT CERAMIC ELECT CERAMIC	680PF 1uF	20% 10% 20% 10%	25V 50V 50V 50V 50V	CN802	* 1-564-340-00 1-558-350-31	PIN, CONNECTOR  CORD (WITH CORD  ( COMPOSITION	r 6p Nnector) (u:	S, Cana		
C501 C502 C503 C504 C601	1-124-903-11 1-162-292-31 1-124-903-11 1-162-282-31 1-124-927-11	ELECT CERAMIC ELECT CERAMIC ELECT	680PF 1uF 100PF	20% 10% 20% 10% 20%	50V 50V 50V 50V 100V	CP801 CP802	1-233-204-11 1-233-204-11	COMPOSITION C COMPOSITION C	IRCUIT BLO			
C602 C604 C605 C606 C607	1-124-927-11 1-124-443-00 1-124-443-00 1-164-159-11 1-124-927-11	ELECT ELECT ELECT CERAMIC ELECT	100uF 100uF 0. 1uF	20% 20%		D101 D201 D301 D302 D303	8-719-912-20 8-719-912-20 8-719-912-20 8-719-912-20 8-719-912-20	DIODE 1SS120 DIODE 1SS120 DIODE 1SS120 DIODE 1SS120 DIODE 1SS120	0 0 0			
C608 C609 C701 C702 C703	1-164-159-11 1-164-159-11 1-124-556-11 1-124-556-11 1-124-478-11	CERAMIC CERAMIC ELECT ELECT ELECT	2200uF	20% 20% 20%	16V	D304 D305 D306 D307 D308	8-719-912-20 8-719-912-20 8-719-912-20 8-719-912-20 8-719-912-20	D10DE 1SS120 D10DE 1SS120 D10DE 1SS120 D10DE 1SS120 D10DE 1SS120	0 0 0			
C704 C705 C706 C707 C708	1-124-893-11 1-124-893-11 1-124-360-00 1-124-907-11 1-124-564-11	ELECT ELECT ELECT ELECT ELECT	2200uF 1000uF 10uF	20% 20% 20% 20% 20% 20%	10V 16V 50V	D309 D701 D702 D703 D704	8-719-912-20 8-719-200-77 8-719-200-77 8-719-200-77 8-719-200-77	DIODE 1SS120 DIODE 10E2N DIODE 10E2N DIODE 10E2N				

Ref. No.	Part No.	<u>Description</u> F	Remark	Ref. No.	Part No.	Description		Remark
D705	8-719-933-33	DIODE HZS6A1L				( COIL )		
D706	8-719-933-33	DIODE HZS6A1L		1.101	1 410 700 11	INDIATOR	27	
D707 D712	8-719-912-20 8-719-912-20	DIODE 1SS120 DIODE 1SS120		L101 L201	1-410-780-11 1-410-780-11	INDUCTOR	27mH 27mH	
D713	8-719-200-31	DIODE 21D005						
D714	8-719-933-43	DIODE HZS7A1L				(FILTER)		
D715	8-719-912-20	DIODE 1SS120		LPF101	1-236-475-11	FILTER, LOW		
D716 D717	8-719-912-20 8-719-001-70	DIODE 1SS120 DIODE UZL-12M1		LPF201	1-236-475-11	FILTER, LOW	PASS	
D718	8-719-200-77	DIODE 10E2N				( TRANSISTO	? >	
D719	8-719-200-77	DIODE 10E2N		Q101	8-729-900-74	TRANSISTOR	DTC143TS	
D720	8-719-000-93	DIODE UZL-7H1		0102	8-729-900-80	TRANSISTOR	DTC114ES	
D721 D722	8-719-912-20 8-719-912-20	DIODE 1SS120 DIODE 1SS120		Q103 Q104	8-729-142-25 8-729-620-05	TRANSISTOR TRANSISTOR	2SD1020HFE 2SC2603-EF	
D723	8-719-933-33	DIODE HZS6A1L		0201	8-729-900-74	TRANSISTOR	DTC143TS	
D724	8-719-312-09	D10DE RBA-402		0202	8-729-900-80	TRANSISTOR	DTC114ES	
D801	8-719-912-20	DIODE 1SS120		0203	8-729-142-25	TRANSISTOR	2SD1020HFE	
D802 D803	8-719-912-20 8-719-912-20	DIODE 1SS120 DIODE 1SS120		0204 0301	8-729-620-05 8-729-119-76	TRANSISTOR TRANSISTOR	2SC2603-EF 2SA1175-HFE	
D804	8-719-912-20	DIODE 133120 DIODE 1SS120	1	0302	8-729-900-80	TRANSISTOR	DTC114ES	
D805	8-719-912-20	DIODE 1SS120		0303	8-729-900-80	TRANSISTOR	DTC114ES	
D806	8-719-912-20	DIODE 1SS120		0304	8-729-900-80	TRANSISTOR	DTC114ES	
D807	8-719-912-20	DIODE 1SS120		0305	8-729-119-76	TRANSISTOR	2SA1175-HFE	
D808 D809	8-719-933-33 8-719-933-33	DIODE HZS6A1L DIODE HZS6A1L		0306 0307	8-729-900-80 8-729-900-80	TRANSISTOR TRANSISTOR	DTC114ES DTC114ES	
			}					
D810 D811	8-719-912-20 8-719-912-20	DIODE 1SS120 DIODE 1SS120 (US, Canadian)	}	Q308 Q309	8-729-900-80 8-729-620-05	TRANSISTOR TRANSISTOR	DTC114ES 2SC2603-EF	
D814	8-719-912-20	DIODE 1SS120		Q310	8-729-194-57	TRANSISTOR	2SC945-P	
D815	8-719-912-20	DIODE 1SS120		0311	8-729-194-57	TRANSISTOR	2SC945-P	
		( IC )		Q312	8-729-900-61	TRANSISTOR	DTA114ES	
				0701	8-729-900-80	TRANS1STOR	DTC114ES	
10301 10302	8-759-111-44 8-752-035-94	IC uPC4570C-1 IC CXA1331S		Q702 Q703	8-729-900-80 8-729-924-90	TRANSISTOR TRANSISTOR	DTC114ES 2SB1370-EF	
1C303	8-752-038-02	IC CXA1198AP		0704	8-729-111-55	TRANSISTOR	2SD2061-E, F	
1C304 1C305	8-759-106-56 8-759-945-58	1C uPC1297CA 1C RC4558P		0705	8-729-111-55	TRANSISTOR	2SD2061-E, F	
16303	0-109-540-56	1C 104550F		0706	8-729-620-05	TRANSISTOR	2SC2603-EF	
1C306	8-759-945-58	IC RC4558P		0707	8-729-900-80	TRANSISTOR	DTC114ES	
1C601 1C602	8-759-634-50 8-759-634-50	IC M5218AL IC M5218AL		0708 0709	8-729-924-90 8-729-620-05	TRANSISTOR TRANSISTOR	2SB1370-EF 2SC2603-EF	
1C701	8-759-945-58	1C RC4558P	.	0710	8-729-119-76	TRANSISTOR	2SA1175-HFE	
10801	8-759-636-61	IC M50963-246SP		0711	9 720 140 04	TRANSISTOR	20D11164 I	
IC802	8-759-240-69	IC TC4069UBP	İ	Q801	8-729-140-04 8-729-119-76	TRANSISTOR	2SB1116A-L 2SA1175-HFE	
IC803	8-759-973-95	IC BA6219B		0802	8-729-119-76	TRANSISTOR	2SA1175-HFE	
1C804 1C805	8-759-822-09 8-759-822-09	IC LB1641 IC LB1641		Q803 Q804	8-729-900-61 8-729-900-61	TRANSISTOR TRANSISTOR	DTA114ES DTA114ES	
10000	0 100 022 00							
		〈 JACK 〉		0805 0806	8-729-900-61 8-729-900-61	TRANSISTOR TRANSISTOR	DTA114ES DTA114ES	
J101	1-507-854-21	JACK, LARGE TYPE (MICROPHONE LEFT)		0807	8-729-900-65	TRANSISTOR	DTA144ES	
	1 507 054 00	(US, Canadian)		0808	8-729-900-80	TRANSISTOR	DTC114ES	
	1-507-854-00	JACK, LARGE TYPE (MICROPHONE LEFT) (AE	r <i>)</i>	0809	8-729-900-61	TRANSISTOR	DTA114ES	
J201	1-507-854-21	JACK, LARGE TYPE (MICROPHONE RIGHT)		0810	8-729-900-61	TRANSISTOR	DTA114ES	
	1-507-854-00	(US, Canadian)  JACK, LARGE TYPE (MICROPHONE RIGHT) (A	EP)	Q811 Q812	8-729-620-05 8-729-620-05	TRANSISTOR TRANSISTOR	2SC2603-EF 2SC2603-EF	
				0813	8-729-620-05	TRANSISTOR	2SC2603-EF	
J301	1-573-070-11 1-565-258-11	JACK, PIN 4P (LINE) (US, Canadian) JACK, PIN 4P (LINE) (AEP)		Q814	8-729-620-05	TRANSISTOR	2SC2603-EF	
				Q815	8-729-900-61	TRANSISTOR	DTA114ES	
J302	1-507-796-71	JACK (HEADPHONES)		0816	8-729-900-61	TRANSISTOR	DTA114ES	

Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
		⟨ RESISTOR ⟩					R222	1-249-421-11	CARBON	2. 2K	5%	1/4W	
							R223	1-247-840-00	CARBON	2. 4K	5%	1/4W	
R101	1-249-433-11	CARBON	22K	5%	1/4W		R224	1-247-887-00	CARBON	220K	5%	1/4W	
R102	1-247-887-00	CARBON	220K	5%	1/4W		R225	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R103	1-249-423-11	CARBON	3. 3K	5%	1/4W		R226	1-247-858-11	CARBON	13K	5%	1/4₩	
R104	1-249-428-11	CARBON	8. 2K	5%	1/4W								
R105	1-247-864-11	CARBON	24K	5%	1/4W		R227	1-249-435-11	CARBON	33K	5%	1/4W	
							R228	1-219-153-11	FUSIBLE	10	5%	1/4W	F
R106	1-249-414-11	CARBON	560	5%	1/4W		R229	1-247-883-00	CARBON	150K	5%	1/4₩	
R107	1-249-421-11	CARBON	2. 2K	5%	1/4W		R230	1-249-434-11	CARBON	27K	5%	1/4W	
R108	1-249-431-11	CARBON	15K	5%	1/4₩		R231	1-247-870-11	CARBON	43K	5%	1/4¥	
R109	1-249-421-11	CARBON	2. 2K	5%	1/4W		2000	4 047 000 44	******				
R110	1-249-417-11	CARBON	1K	5%	1/4W		R232	1-247-868-11	CARBON	36K	5%	1/4₩	
D144	4 040 400 44	AADDAN	401/	F4/	4 / 4111		R233	1-249-408-11	CARBON	180	5%	1/4¥	
R111	1-249-429-11	CARBON	10K	5%	1/4W		R234	1-249-417-11	CARBON	1K	5%	1/4¥	
R112	1-249-424-11	CARBON	3. 9K	5%	1/4W		R301	1-249-417-11	CARBON	1K	5%	1/4₩	
R113	1-249-421-11	CARBON	2. 2K	5%	1/4W		R302	1-249-437-11	CARBON	47K	5%	1/4₩	
R114	1-249-429-11	CARBON	10K	5%	1/4W								
R115	1-249-421-11	CARBON	2. 2K	5%	1/4W		R303	1-249-403-11	CARBON	68	5%	1/4₩	
							R304	1-249-429-11	CARBON	10K	5%	1/4W	
R116	1-249-428-11	CARBON	8. 2K	5%	1/4W		R305	1-215-455-00	METAL	27K	1%	1/6W	
R117	1-249-435-11	CARBON	33K	5%	1/4W		R306	1-249-421-11	CARBON	2. 2K	5%	1/4¥	
R118	1-249-403-11	CARBON	68	5%	1/4W		R307	1-249-417-11	CARBON	1K	5%	1/4W	
R119	1-247-882-11	CARBON	130K	5%	1/4₩		ŀ						
R120	1-249-426-11	CARBON	5. 6K	5%	1/4W		R308	1-249-441-11	CARBON	100K	5%	1/4₩	
							R309	1-247-864-11	CARBON	24K	5%	1/4W	
R121	1-249-421-11	CARBON	2. 2K	5%	1/4W		R312	1-249-438-11	CARBON	56K	5%	1/4₩	
R122	1-249-421-11	CARBON	2. 2K	5%	1/4W		R313	1-249-436-11	CARBON	39K	5%	1/4₩	
R123	1-247-840-00	CARBON	2. 4K	5%	1/4W		R314	1-247-885-00	CARBON	180K	5%	1/4₩	
R124	1-247-887-00	CARBON	220K	5%	1/4W								
R125	1-249-421-11	CARBON	2. 2K	5%	1/4W		R315	1-247-882-11	CARBON	130K	5%	1/4₩	
							R316	1-249-436-11	CARBON	39K	5%	1/4W	
R126	1-247-858-11	CARBON	13K	5%	1/4₩		R317	1-247-870-11	CARBON	43K	5%	1/4₩	
R127	1-249-435-11	CARBON	33K	5%	1/4₩		R318	1-247-893-11	CARBON	390K	5%	1/4₩	
R128	<b>1-219-153-11</b>	FUSIBLE	10	5%	1/4W	F	R319	1-247-866-11	CARBON	30K	5%	1/4₩	
R129	1-247-883-00	CARBON	150K	5%	1/4W								
R130	1-249-434-11	CARBON	27K	5%	1/4W		R320	1-247-888-11	CARBON	240K	5%	1/4W	
							R321	1-247-890-11	CARBON	300K	5%	1/4₩	
R131	1-247-870-11	CARBON	43K	5%	1/4W		R322	1-247-872-11	CARBON	51K	5%	1/4W	
R132	1-247-868-11	CARBON	36K	5%	1/4W		R323	1-249-438-11	CARBON	56K	5%	1/4₩	
R133	1-249-408-11	CARBON	180	5%	1/4W		R324	1-247-885-00	CARBON	180K	5%	1/4W	
R134	1-249-417-11	CARBON	1K	5%	1/4W								
R201	1-249-433-11	CARBON	22K	5%	1/4W		R325	1-247-870-11	CARBON	43K	5%	1/4₩	
							R326	1-247-880-11	CARBON	110K	5%	1/4W	
R202	1-247-887-00	CARBON	220K	5%	1/4W		R327	1-247-876-11	CARBON	75K	5%	1/4W	
R203	1-249-423-11	CARBON	3. 3K	5%	1/4W		R328	1-249-438-11	CARBON	56K	5%	1/4W	
R204	1-249-428-11	CARBON	8. 2K	5%	1/4W		R329	1-249-438-11	CARBON	56K	5%	1/4₩	
R205	1-247-864-11	CARBON	24K	5%	1/4W								
R206	1-249-414-11	CARBON	560	5%	1/4₩		R330	1-249-409-11	CARBON	220	5%	1/4¥	
D007	4 848 484 41	A.B. A. I.					R331	1-249-409-11	CARBON	220	5%	1/4W	
R207	1-249-421-11	CARBON	2. 2K	5%	1/4₩		R332	1-249-422-11	CARBON	2. 7K	5%	1/4W	
R208	1-249-431-11	CARBON	15K	5%	1/4W		R333	1-249-429-11	CARBON	10K	5%	1/4W	
R209	1-249-421-11	CARBON	2. 2K	5%	1/4₩		R334	1-247-836-11	CARBON	1. 6K	5%	1/4₩	
R210	1-249-417-11	CARBON	1K	5%	1/4₩								
R211	1-249-429-11	CARBON	10K	5%	1/4W		R335	1-249-422-11	CARBON	2. 7K	5%	1/4W	
							R336	1-249-428-11	CARBON	8. 2K	5%	1/4W	
R212	1-249-424-11	CARBON	3. 9K	5%	1/4W		R338	1-249-441-11	CARBON	100K	5%	1/4W	
R213	1-249-421-11	CARBON	2. 2K	5%	1/4W		R339	1-249-437-11	CARBON	47K	5%	1/4W	
R214	1-249-429-11	CARBON	10K	5%	1/4W		R340	1-249-437-11	CARBON	47K	5%	1/4W	
R215	1-249-421-11	CARBON	2. 2K	5%	1/4W	1							
R216	1-249-428-11	CARBON	8. 2K	5%	1/4W		R341	1-249-389-11	CARBON	4.7	5%	1/4W	
							R342	1-249-389-11	CARBON	4. 7	5%	1/4W	
R217	1-249-435-11	CARBON	33K	5%	1/4W		R343	1-249-409-11	CARBON	220	5%	1/4W	
R218	1-249-403-11	CARBON	68	5%	1/4W		R344	1-249-409-11	CARBON	220	5%	1/4W	
R219	1-247-882-11	CARBON	130K	5%	1/4W		R345	1-249-441-11	CARBON	100K	5%	1/4₩	
R220	1-249-426-11	CARBON	5. 6K	5%	1/4¥								
R221	1-249-421-11	CARBON	2. 2K	5%	1/4W		R346	1-249-441-11	CARBON	100K	5%	1/4W	
							R347	1-249-429-11	CARBON	10K	5%	1/4W	
							R348	1-249-428-11	CARBON	8. 2K	5%	1/4W	
							R349	1-249-441-11	CARBON	100K	5%	1/4₩	

Note:
The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Note:
Les composants identifiés par une marque À sont critiques pour la sécurité.
Ne les remplacer que par une pièce portant le numéro spécifié.

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Ref. No.	Part No.	Description				Remark	Ref. No.	Part No.	Description				Remark
11411 1131						110111101111	1.0.1.1.0.1						Homani
R351	1-249-423-11	CARBON	3. 3K	5%	1/4W		R805	1-249-417-11	CARBON	1K	5%	1/4₩	
R352	1-249-429-11	CARBON	10K	5%	1/4W		R806	1-247-844-11	CARBON	3. 6K	5%	1/4W	
R353	1-249-429-11	CARBON	10K	5%	1/4W		R807	1-249-426-11	CARBON	5. 6K	5%	1/4W	
R354	1-249-417-11	CARBON	1K	5%	1/4W		R808	1-249-428-11	CARBON	8. 2K	5%	1/4W	
R355	1-249-430-11	CARBON	12K	5%	1/4W		R809	1-249-426-11	CARBON	5. 6K	5%	1/4W	
R356	1-249-435-11	CARBON	33K	5%	1/4W		R810	1-247-887-00	CARBON	220K	5%	1/4₩	
R357	1-249-425-11	CARBON	4. 7K	5%	1/4W		R811	1-247-887-00	CARBON	220K	5%	1/4W	
R364	1-249-421-11	CARBON	2. 2K	5%	1/4W		R812	1-249-436-11	CARBON	39K	5%	1/4W	
R365	1-249-431-11	CARBON	15K	5%	1/4W		R813	1-247-891-00	CARBON	330K	5%	1/4W	
R366	1-249-429-11	CARBON	10K	5%	1/4W		R814	1-247-891-00	CARBON	330K	5%	1/4W	
										*****	•	.,	
R401	1-249-433-11	CARBON	22K	5%	1/4W		R815	1-249-436-11	CARBON	39K	5%	1/4W	
R402	1-249-421-11	CARBON	2. 2K	5%	1/4W		R816	1-247-903-00	CARBON	1M	5%	1/4W	
R403	1-249-433-11	CARBON	22K	5%	1/4W		R817	1-249-435-11	CARBON	33K	5%	1/4W	
R404	1-249-409-11	CARBON	220	5%	1/4W		R818	1-249-435-11	CARBON	33K	5%	1/4W	
R405	1-249-441-11	CARBON	100K	5%	1/4W		R819	1-249-425-11	CARBON	4. 7K	5%	1/4W	
11400	1 240 441 11	ONIDON	rook	3/0	17 40		11013	7 243 420 11	ONIDON	7. 110	3/0	1/411	
R406	1-249-429-11	CARBON	10K	5%	1/4W		R820	1-249-417-11	CARBON	1K	5%	1/4₩	
R407	1-249-411-11	CARBON	330	5%	1/4W		R821	1-249-413-11	CARBON	470			
R408	1-249-437-11	CARBON			1/4W		R822	1-249-413-11	CARBON		5%	1/4₩	
			47K	5%						1K	5%	1/4₩	
R409	1-249-441-11	CARBON	100K	5%	1/4W		R823	1-249-429-11	CARBON	10K	5%	1/4W	
R501	1-249-433-11	CARBON	22K	5%	1/4#		R824	1-249-429-11	CARBON	10K	5%	1/4₩	
									******				
R502	1-249-421-11	CARBON	2. 2K	5%	1/4W		R825	1-249-433-11	CARBON	22K	5%	1/4W	
R503	1-249-433-11	CARBON	22K	5%	1/4W		R826	1-249-429-11	CARBON	10K	5%	1/4W	
R504	1-249-409-11	CARBON	220	5%	1/4W		R827	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R505	1-249-441-11	CARBON	100K	5%	1/4W		R828	1-249-410-11	CARBON	270	5%	1/4₩	
R506	1-249-429-11	CARBON	10K	5%	1/4₩		R829	1-247-887-00	CARBON	220K	5%	1/4₩	
R507	1-249-411-11	CARBON	330	5%	1/4W		R830	1-249-413-11	CARBON	470	5%	1/4₩	
R508	1-249-437-11	CARBON	47K	5%	1/4W		R831	1-249-413-11	CARBON	470	5%	1/4W	
R509	1-249-441-11	CARBON	100K	5%	1/4W		R832	1-249-435-11	CARBON	33K	5%	1/4W	
R601	1-249-409-11	CARBON	220	5%	1/4W		R833	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R602	1-249-409-11	CARBON	220	5%	1/4W		R834	1-249-421-11	CARBON	2. 2K	5%	1/4W	
		********			.,						• • • • • • • • • • • • • • • • • • • •	.,	
R603	1-247-840-00	CARBON	2. 4K	5%	1/4W		R835	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R605	1-247-727-11	CARBON	10	5%	1/2W		R836	1-249-421-11	CARBON	2. 2K	5%	1/4W	
R701	1-249-433-11	CARBON	22K	5%	1/4W		R837	1-249-429-11	CARBON	10K	5%	1/4W	
R702	1-249-425-11	CARBON	4. 7K	5%	1/4W		R838	1-249-429-11	CARBON	10K	5%	1/4W	
R703	1-249-420-11	CARBON	1. 8K	5%	1/4₩		R839	1-249-433-11	CARBON	22K	5%	1/4W	
11703	1 243 420 11	CARDON	1. UK	3/6	1/411		11033	1 243 400 11	CANDON	ZZK	3/6	1/411	
R704	1-249-426-11	CARBON	5. 6K	5%	1/4W		R840	1-249-429-11	CARBON	10K	5%	1/4₩	
R705	1-249-427-11	CARBON	6. 8K	5%	1/4W		R841	1-249-429-11	CARBON	10K	5%	1/4W	
		CARBON			•			<b>1-249-429-11 1-212-958-00</b>				1/2W	c
R706	1-249-419-11	CARBON	1. 5K	5%	1/4W		R842 R843	ALMAN	FUSIBLE CARBON	10	5%		Г
R707	1-249-429-11		10K	5%	1/4W			1-249-419-11		1. 5K	5%	1/4W	
R708	1-249-419-11	CARBON	1. 5K	5%	1/4W		R844	1-249-417-11	CARBON	1K	5%	1/4W	
0700	1-249-425-11	CARBON	4 7V	E9/	4 /49		D045	1 040 401 11	OADDON.	0.01/	F8/	4 / 4 10	
R709 R710	1-249-425-11	CARBON	4. 7K 220	5% 5%	1/4W 1/4W		R845 R846	1-249-421-11 1-247-887-00	CARBON CARBON	2. 2K 220K	5% 5%	1/4₩ 1/4₩	
	1-249-417-11	CARBON											
R711		CARBON	1K	5%	1/4W		R847	1-249-410-11	CARBON	270		1/4W	
R712	1-249-427-11		6. 8K	5%	1/4W		R848	1-249-421-11	CARBON	2. 2K		1/4₩	
R713	1-249-427-11	CARBON	6. 8K	5%	1/4W						(US, Can	iau i an)	
D71 4	1.240.417.11	CADDON	11/	F4/	1 /4W		B040	1 040 401 11	CADDON	ງດະ	E#/	1 /44	
R714	1-249-417-11	CARBON	1K	5%	1/4W		R849	1-249-421-11	CARBON	2. 2K		1/4₩	
R715	1-249-425-11	CARBON	4. 7K	5%	1/4₩		R850	1-249-432-11	CARBON	18K		1/4W	
R716	1-249-433-11	CARBON	22K	5%	1/4₩		R851	1-249-429-11	CARBON	10K		1/4W	
R717	1-249-425-11	CARBON	4. 7K	5%	1/4W						(US, Can		
R718	1-249-433-11	CARBON	22K	5%	1/4W		R852	1-249-405-11	CARBON	100		1/4W	
		a.mna::									(US, Can	nad i an)	
R719	1-249-436-11	CARBON	39K	5%	1/4W								
R720	1-247-856-00	CARBON	11K	5%	1/4W		R853	1-249-393-11	CARBON	10		1/4¥	
R721	1-249-437-11	CARBON	47K	5%	1/4W						(US, Can	nadian)	
R722	1-247-742-11	CARBON	180	5%	1/2W		R854	1-247-872-11	CARBON	51K	5%	1/4W	
R723	1-808-065-11	THERMISTOR, PO					R855	1-249-427-11	CARBON	6. 8K	5%	1/4W	
	•						R856	1-249-433-11	CARBON	22K	5%	1/4W	
R724	1-808-065-11	THERMISTOR, PO	SITIVE					<b>1-212-942-00</b>	FUSIBLE	2. 2		1/2W	F
R801	<b>1-212-954-11</b>	FUSIBLE	6. 8	5%	1/2W	F				-			
R802	<u>↑</u> 1-212-952-00	FUSIBLE	5. 6	5%	1/2W								
R803	1-249-426-11	CARBON	5. 6K	5%	1/4W								
R804	1-249-428-11	CARBON	8. 2K	5%	1/4W								
				-,0	.,								

The components identified by mark A or dotted line with mark are critical for safety.
Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

## MAIN REAL MOTOR PANEL

L						
Ref. No	o. Part No.	<u>Description</u> Remark	Ref. No.	Part No.	Description	Remark
R914	1-249-422-11	CARBON 2.7K 5% 1/4W			⟨ MOTOR ⟩	
R915	1-249-424-11	CARBON 3.9K 5% 1/4W				
R916 R928	1-249-428-11 1-249-434-11	CARBON 8. 2K 5% 1/4W CARBON 27K 5% 1/4W	M1051 M1052	X-3356-638-1	MOTOR (REEL R) ASSY MOTOR (ASSIST) ASSY	
11320	1 243 404 11	UNIOUN 210 3/6 1/4#	MIVOZ	X-3356-604-1	MOTOR (922121) 9221	
		⟨ VARIABLE RESISTOR ⟩				
RV101	1-238-600-11	RES, ADJ, CARBON 10K	*******	**********	*************	******
RV102	1-238-016-11	RES, ADJ, CARBON 10K		* A-2006-441-A	PANEL BOARD (including	A-F)
RV103	1-238-601-11	RES, ADJ, CARBON 22K			*********	
RV201 RV202	1-238-600-11 1-238-016-11	RES, ADJ, CARBON 10K RES, ADJ, CARBON 10K		9-911-844-XX	CUSHION	
				* 4-932-502-01	HOLDER, FL TUBE	
RV203	1-238-601-11	RES, ADJ, CARBON 22K		* 4-937-336-01	HOLDER, LED	
RV601 RV603	1-238-085-11 1-241-046-11	REA, VAR, CARBON 20K/20K (PHONE LEVEL) RES, VAR, CARBON 5K (BIAS)			( CAPACITOR )	
RV604	1-241-410-11	RES, VAR, CARBON 20K/50K/50K (REC LEVEL)			( ONI NOTION )	
RV605	1-238-904-21	RES, VAR, CARBON 50K/50K (BALANCE)	C901	1-161-494-00	CERAMIC 0. 022uF	25V
RV801	1-238-602-11	RES, ADJ, CARBON 47K	C902 C903	1-161-494-00 1-162-282-31	CERAMIC 0.022uF CERAMIC 100PF 1	25V 10% 50V
			C904	1-162-282-31		10% 50V
		⟨ RELAY ⟩			/ 00.00TOTOTOTO	
RY301	1-515-683-11	RELAY			⟨ CONNECTOR ⟩	
			CN901	* 1-580-782-11	CONNECTOR, BOARD TO BOARD	
		⟨ SWITCH ⟩			/ DIODE \	
S915	1-554-118-00	SWITCH, PUSH (1 KEY) (MPX FILTER)			( DIODE )	
S916	1-572-154-11	SWITCH, ROTARY (DOLBY NR)	D901	8-719-912-20	DIODE 1SS120	
		⟨ TRANSFORMER ⟩	D902 D903	8-719-912-20 8-719-301-38	DIODE 1SS120 DIODE SEL2210S (ARL)	
		( TIMO OTHER )	D303	0-719-301-30	DIODE SELZZIOS (ARL)	
T101 T201	1-433-335-11 1-433-335-11	TRANSFORMER, BIAS OSCILLATION TRANSFORMER, BIAS OSCILLATION			<pre>〈 FLUORESCENT INDICATOR 〉</pre>	
T301	1-433-336-11	TRANSFORMER, BIAS OSCILLATION	FL901	1-519-658-11	INDICATOR TUBE, FLUORESCEN	IT ·
						••
		⟨ TEST PIN ⟩			( IC )	
TP301	* 1-564-506-11	PLUG, CONNECTOR 3P	10901	8-759-636-62	IC M50940-325SP	
TP801 TP802	* 1-564-505-11 * 1-564-505-11	PLUG, CONNECTOR 2P PLUG, CONNECTOR 2P	10902	8-741-100-48	IC SBX1610-59	
TP803	* 1-564-506-11	PLUG, CONNECTOR 3P			( TRANSISTOR )	
					( TIBLE FOTON )	
		⟨ CRYSTAL ⟩	0901 0902	8-729-900-61 8-729-900-61	TRANSISTOR DTA114ES	
X801	1-577-358-21	VIBRATOR, CERAMIC 4MHz	0903	8-729-900-61	TRANSISTOR DTA114ES TRANSISTOR DTA114ES	
			0904	8-729-900-61	TRANSISTOR DTA114ES	
******	********	***************************************	0905	8-729-900-61	TRANSISTOR DTA114ES	
			0906	8-729-900-65	TRANSISTOR DTA144ES	
	* 1-632-741-11	REAL MOTOR BOARD			/ DECICTOR \	
		***************************************			( RESISTOR )	
		( CAPACITOR )	R857	1-249-422-11	CARBON 2. 7K 5%	
C1051	1-124-907-11	ELECT 10uF 20% 50V	R858	1-249-422-11	CARBON 2. 7K 5%	
C1052	1-124-907-11	ELECT 10uF 20% 50V	R901 R902	1-249-441-11 1-249-441-11	CARBON 100K 5% CARBON 100K 5%	
C1053	1-164-159-11	CERAMIC 0. 1uF 50V	R903	1-249-441-11	CARBON 100K 5%	
		⟨ CONNECTOR ⟩	P004	1-249-441-11		·
		Connector /	R904 R905	1-249-441-11	CARBON 100K 5% CARBON 100K 5%	
CN1051	* 1-564-499-11	PIN, CONNECTOR 6P	R906	1-249-441-11	CARBON 100K 5%	
CN1052 CN1053	* 1-564-718-11 * 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	R907	1-247-903-00	CARBON 1M 5%	1/4W
UN 1000	* 1-564-718-11	PIN, CONNECTOR (SMALL TYPE) 2P	R908	1-249-435-11	CARBON 33K 5%	1/4W
		⟨ RESISTOR ⟩	R909	1-249-411-11	CARBON 330 5%	1/4W
R1051	1-249-414-11	CAPRON ECO 50/ 1/4W	R910	1-249-429-11	CARBON 10K 5%	1/4W
MIVOI	1-243-414-11	CARBON 560 5% 1/4₩	R911 R912	1-249-429-11 1-249-429-11	CARBON 10K 5% CARBON 10K 5%	
			R913	1-249-429-11	CARBON 10K 5% CARBON 10K 5%	
			1			.,

## PANEL

Ref. No.	Part No.	Description			Remark	Ref. No.	Part No.	Description	Remark
R917 R918 R919	1-249-422-11 1-249-424-11 1-249-428-11	CARBON CARBON CARBON	2. 7K 55 3. 9K 55 8. 2K 55	6 1/4W				MISCELLANEOUS ************	
R920	1-249-434-11	CARBON	27K 55			52	<u></u> 1-450-100-11	TRANSFORMER, POWER (US, Canadian	
R921	1-249-422-11	CARBON	2. 7K 55				<u>1.450-399-11</u>	TRANSFORMER, POWER (AEP)	<i>'</i>
11321	1 240 422 11	OAHDON	2.71	. 1/411			1-551-506-XX	CORD, POWER (US, Canadian)	
R922	1-249-424-11	CARBON	3. 9K 55	6 1/4W			<b>1-555-795-00</b>	CORD, POWER, EURO PLUG (AEP)	
R923	1-249-428-11	CARBON	8. 2K 55			518	8-719-980-85	DIODE SLF-325C	
R924	1-249-434-11	CARBON	27K 5						
R925	1-249-422-11	CARBON	2. 7K 5	6 1/4W		HRPE1001	A-2003-722-A	SLIDER (R4) COMPLETE ASSY	
R926	1-249-424-11	CARBON	3. 9K 5	6 1/4W		IC1001	8-749-920-97	IC PHOTO REFLECTOR GP2S22B	
						IC1002	8-749-920-97	IC PHOTO REFLECTOR GP2S22B	
R927	1-249-428-11	CARBON	8. 2K 55			IC803	8-759-973-95	IC BA6219B	
R929	1-249-405-11	CARBON	100 55			M1051	X-3356-638-1	MOTOR (REEL R) ASSY	
R930	1-249-405-11	CARBON	100 55						
R931	1-249-405-11	CARBON	100 55			M1052	X-3356-604-1	MOTOR (ASSIST) ASSY	
R932	1-249-405-11	CARBON	100 5	6 1/4W		M1053	X-3356-646-1	MOTOR (CAPSTAN V1) ASSY	
Lan						S1001	1-466-525-11	ENCODER, ROTARY	
R933	1-249-405-11	CARBON	100 55	% 1/4W					
		( SWITCH )				*******	******	*****************	******
		( SHITCH )					ACCESSORV	& PACKING MATERIAL	
S701	1-554-118-00	SWITCH, PUSH (	1 KEY) (POWE	3)				*****************	
S801	1-571-520-11	SWITCH, SLIDE		•/					
S802	1-571-520-11	SWITCH, SLIDE					1-559-533-11	CORD, CONNECTION	
S901	1-554-303-21	SWITCH, TACTIL		SE 合)			* 3-350-830-01	CUSHION	
S902	1-554-303-21	SWITCH, TACTIL					* 3-366-700-21	INDIVIDUAL CARTON (US, Canadian)	
							* 3-366-700-21	INDIVIDUAL CARTON (AEP)	
S903	1-554-303-21	SWITCH, TACTIL	E ( ▶ )				3-703-450-01	INSTRUCTION (US)	
S904	1-554-303-21	SWITCH, TACTIL							
S905	1-554-303-21	SWITCH, TACTIL					* 3-704-343-01	SHEET (STANDARD), PROTECTION	
S906	1-554-303-21	SWITCH, TACTIL					3-753-080-11	MANUAL, INSTRUCTION (ENGLISH, F,	E, P) (AEP)
S907	1-554-303-21	SWITCH, TACTIL	E (  > )				3-753-080-21	MANUAL, INSTRUCTION (ENGLISH) (	
S908	1_554_202_21	CWITCH TACTIL	E /DEC MITTE	<b>0</b> \			3-753-080-31 3-753-080-41	MANUAL, INSTRUCTION (FRENCH) (Ca MANUAL, INSTRUCTION (D, NL, S, I)	
S909	1-554-303-21 1-554-303-21	SWITCH, TACTILI SWITCH, TACTILI		0 )			3-133-000-41	MANUAL, INSTRUCTION (D, NL, S, 1)	(ACP)
S910	1-554-303-21	SWITCH, TACTIL				******	******	**********	******
S911	1-554-303-21	SWITCH, TACTIL		)		*********			***************************************
S912	1-554-303-21	SWITCH, TACTIL		•			HA	ARDWARE LIST	
							***	******	
S913	1-554-303-21	SWITCH, TACTIL							
S914	1-554-303-21	SWITCH, TACTIL	E (DISPLAY I	MODE)		# 1	7-685-534-19	SCREW +BTP 2.6X8 TYPE2 N-S	
		( ) ( ) ( ) ( ) ( )				# 2	7-682-547-04	SCREW +BVTT 3X6 (S)	
		<pre>⟨ VIBRATOR ⟩</pre>				# 3	7-621-849-00	SCREW (BV/RING) SCREW +BVTP 3X6 TYPE2 N-S	
X901	1-577-358-21	VIBRATOR, CERAI	HIC AND-			# 4 # 5	7-685-645-79 7-621-773-93	SCREW (PANEL 2. 6 TP2)	
X301	1-377-330-21	VIDNATON, CENA	MIC 4NDZ			# 3	1-021-113-93	SCREW (FAMEL 2. 0 1F2)	
*******	**********	******	*******	******	******	# 6	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
						# 7	7-621-255-35	SCREW +BVTT 2X5 (S)	
						# 8	7-621-770-67	SCREW +BVTT 2.6X6 (S)	
						#10	7-685-131-19	SCREW +BTP 2.6X4 TYPE2 N-S	
						#11	7-685-133-19	SCREW +BTP 2.6X6 TYPE2 N-S	
						"40	7 004 0 44	CARPEN COURT COM	
						#12	7-621-255-20	SCREW +BVTT 2X4 (S)	

F : FRENCH E : SPANISH P : PORTUGUESE D : GERMAN ex. NL: DUTCH S: SWEDISH I: ITALIAN

The components identified by mark or dotted line with mark recritical for safety.

Replace only with part number specified.

Les composants identifiés par une marque A sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

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